

Directions: Round at 3 decimal places.
Show all work.

1. Find the Extremes of $y(t) = -t^4 + 3t^2 + 4$

2. Find the Points of Inflection of $y = e^x \sin x$ on $x \in [-2\pi, 2\pi]$.

3. Make a Key Trait Table (without Zeros) for $y = \frac{4 - x^2}{x^2 + 4}$.

4. Sketch $y = \sqrt{8x^2 - x^4}$, labeling all the Key Traits.

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